Substitute Form PTO-1449 (Modified)

U.S. Department of Commerce Patent and Trademark Office Attorney's Docket No. 14539-004012

Application No. 10/721,404

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Information Disclosure Statement by Applicant (Use several sheets if necessary)

Applicant

Filing Date

Takuya Tamatani et al.

November 25, 2003

Group Art Unit

(37 CFR §1.98(b))

U.S. Patent Documents								
Examiner	Examiner Desig. Document Publication Filing Date							
Initial ID Number Date Patentee Class Subclass If Appropriate								

	Foreign Patent Documents or Published Foreign Patent Applications								
-	Examiner Desig. Document Publication Country or Translation							slation	
	Initial	ID	Number	Date	Patent Office	Class	Subclass	Yes	No

	Other Documents (include Author, Title, Date, and Place of Publication)								
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Initial	ID	Document							
AA Eljaschewitsch et al., "Identification of a novel activation antigen on human CD4+ T cells," IMMUNOBIOL., 194(1-3):27 (1995)									
70	AB	Hutloff et al., "Identification and initial characterization of a novel T cell-specific cell surface activation antigen," IMMUNOBIOL., 197(2-4):172 (1997)							

Examiner Signature Date Considered EXAMINER: Initials citation considered. Draw line through ditation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

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			U.S. Pate	ent Documents			
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
10	AA	5,484,892	01/16/1996	Tedder et al.	-		
	AB	5,506,126	04/09/1996	Seed et al.			
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		AK	WO 97/26912	07/31/1997	WIPO					
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		AN	WO 98/37415	08/27/1998	WIPO					
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	ABB	WO 02/44364	06/06/2002	WIPO				
	ACC	WO 02/70010	09/12/2002	WIPO				
	ADD	WO 02/76504	10/03/2002	WIPO				
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	AHH _.	EP 1 125 585	08/22/2001	EPO	/			
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	AKK	Aicher et al., "Characterization of Human Inducible Costimulator Ligand Expression and Function," J. IMMUNOL., 164(9):4689-4696 (2000)					
	ALL	Bajorath "A molecular model of inducible costimulator protein and three-dimensional analysis of its relation to the CD28 family of T cell-specific costimulatory receptors," J. MOL. MODEL. 5:169-176 (1999)					
	AMM	Beier et al., "Induction, binding specificity and function of human ICOS," EUR. J. IMMUNOL., 30(12):3707-3717 (2000)					
	ANN	Bensimon et al., "Human lupus anti-DNA autoantibodies undergo essentially primary V kappa gene rearrangements," EMBO J. 13(13):2951-62 (1994)					
	AOO	Brodie et al., "LICOS, a primordial costimulatory ligand?" CURRENT BIOLOGY, 10(6):333-336 (2000)					
	APP	Buonfiglio et al., "Characterization of a novel human surface molecule selectively expressed by mature thymocytes, activated T cells and subsets of T cell lymphomas," EUR. J. IMMUNOL., 29(9)2863-2874 (1999)					
	AQQ	Buonfiglio et al. "The T cell activation molecule H4 and the CD28-like molecule ICOS are identical," EUR. J. IMMUNOL., 30:3463-3467 (2000)					
	ARR	Cameron "Recent advances in transgenic technology" MOLECULAR BIOTECHNOLOGY 7:253-65 (1997)					
ASS Chambers, "The expanding world of co-stimulation: the two-signal model revisited," TRENDS II IMMUNOLOGY, 22(4):217-223 (2001)							
	ATT	Cocks et al. "A novel receptor involved in T-cell activation," NATURE, 376:260-263 (July 20, 1995)					
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Other Documents (include Author, Title, Date, and Place of Publication)			
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10	AVV	Dong et al., "Cutting Edge: Critical Role of Inducible Costimulator in Germinal Center Reactions," J. IMMUNOL., 166(6):3659-3662 (2001)	
	ÁWW	Dong, "ICOS co-stimulatory receptor is essential for T-cell activation and function," NATURE 409(6816):97-101 (2001)	
	AXX	Goding, "Monoclonal Antibodies: Principles and Practice," 2 nd Edition, Academic Press, Orlando, Florida, Chapter 8, pages 281-293 (1986)	
	AYY	Goni et al., "Structural and idiotypic characterization of the L chains of human IgM autoantibodies with different specificities," J. Immunol. 142(9):3158-63 (1989)	
	AZZ	Gonzalo et al., "The Related Molecules CD28 and Inducible Costimulator Deliver Both Unique and Complementary Signals Required for Optimal T Cell Activation," J. IMMUNOL., 166(1):1-5 (2001)	
	AAAA	Guo et al., "Stimulatory Effects of B7-Related Protein-I on Cellular and Humoral Immune Responses in Mice, J. IMMUNOL., 166(9):5578-5584 (2001)	
	ABBB	Harlow and Lane, "Antibodies: A Laboratory Manual," Cold Spring Harbor Laboratory, page 285 (1988)	
	ACCC	Hanzawa et al., "Characteristics of a TTH1 antibody which blocks an unknown adhesion phenomenon," PROCEEDINGS OF THE JAPANESE SOCIETY FOR IMMUNOLOGY, Vol. 24, Abstract No. W17-13 (1994) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]	
	ADDD	Heyeck et al. "Developmental regulation of a murine T-cell-specific tyrosine kinase gene, Tsk," PROC. NATI ACAD. SCI. USA, Vol. 90, pp. 669-673 (1993)	
	AEEE	Houdebine "Production of pharmaceutical proteins from transgenic animals" J. BIOTECHNOL. 34:269-87 (1994)	
	AFFF	Hutloff et al. "ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28," NATURE 397:263-266 (1999)	
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	АННН	Ishikawa et al., "Prediction of the Coding Sequences of Unidentified Human Genes. X. The Complete Sequences of 100 New cDNA Clones from Brain Which Can Code for Large Proteins in vitro," DNA RESEARCH, 5:169-176 (1998)	
	AIII	Kappel et al. "Regulating gene expression in transgenic animals" CURRENT OPINION IN BIOTECHNOLOGY 3:548-53 (1992)	
	AJJJ	Kopf et al., "Inducible Costimulator Protein (ICOS) Controls T Helper Cell Subset Polarization after Virus and Parasite Infection," J. EXP. MED., 192(1):53-61 (2000)	
	AKKK	Kuchroo et al. "B7-1 and B7-2 costimulatory molecules activate differentially the Th1/Th2 developmental pathways: Application to autoimmune disease therapy," CELL, 80:707-718 (March 10, 1995)	
	ALLL	Ling et al., "Identification of GL50, a Novel B7-Like Protein That Functionally Binds to ICOS Receptor," J. IMMUNOL., 164(4):1653-1657 (2000)	
	AMMM	Mages et al. "Molecular cloning and characterization of murine ICOS and identification of B7h as ICOS ligand," EUR. J. IMMUNOL. 30:1040-1047 (2000)	
	ANNN	Marguet et al. "cDNA Cloning for Mouse Thymocyte-activating Molecule," THE JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 267, No. 4, pp. 2200-2208 (1992)	
	A000	McAdam, "ICOS is critical for CD40-mediated antibody class switching," NATURE 409(6816):102-105 (2001)	
	APPP	McAdam, "Mouse Inducible Costimulatory Molecule (ICOS) Expression Is Enhanced by CD28 Costimulation and Regulates Differentiation of CD4 ⁺ T Cells," J. IMMUNOL., 165(9):5035-5040 (2000)	
	AQQQ	McAdam et al., "Mouse inducible costimulatory (ICOS) molecule expression is increased by CD28 costimulation and regulates development of Th2 cells," FASEB JOURNAL, 14(6):A1169 (2000)	
11	ARRR	Mueller, "T cells: A proliferation of costimulatory molecules," CURR. BIOL. 10(6):R227-R230 (2000)	

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	ATTT	Mullins et al. "Fulminant hypertension in transgenic rats harbouring the mouse Ren-2 gene" NATURE, 344:541-44 (1990)		
	AUUU	Mullins et al. "Transgenesis in nonmurine species" Hypertension 22:630-33 (1993)		
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	AWWW	Nojima et al. "The 4F9 antigen is a member of the tetra spans transmembrane protein family and functions as an accessory molecule in T cell activation and adhesion," CELLULAR IMMUNOLOGY, 152:249-260 (1993)		
	AXXX	Nurieva et al., "Inducible costimulator is essential for collagen-induced arthritis," J. CLIN. INVEST. 111(5):701-06 (2003)		
	AYYY	Overbeek "Factors affecting transgenic animal production," Transgenic Animal Technology, A Laboratory Handbook 96-98 (1994).		
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	AAAAA	Pech et al., "A large section of the gene locus encoding human immunoglobulin variable regions of the kappa type is duplicated," J. Mol Biol. 183(3):291-9 (1985)		
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	АНННН	Sharpe "Analysis of lymphocyte costimulation in vivo using transgenic and 'knockout' mice," CURRENT OPINION IN IMMUNOLOGY, 7:389-395 (1995)		
	AIIII	Sigmund "Are studies in genetically altered mice out of control?" ARTERIOSCLER. THROMB. VASC. BIOL., 20:1425-29 (2000)		
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	ALLLL	Tai et al. "A role for CD9 molecules in T cell activation," J. EXP. MED., 184:753-758 (August 1996)		
	AMMMM	H-160 (1993) [ORIGINAL JAPANESE AND ENGLISH LANGUAGE TRANSLATION]		
10	ANNNN	Tamatani et al. "AILIM/ICOS: a novel lymphocyte adhesion molecule," INTERNATIONAL IMMUNOLOGY, 12(1):51-55 (2000)		

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